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In the claims:

1-40. (Canceled)

41-61. (Canceled)

62. (Currently Amended) An electro-optical glazing structure comprising:

an electro-optical glazing panel including liquid crystal material interposed between a pair of optically-transparent substrates, said electro-optical glazing panel having an electrically-switchable scattering mode of operation and electrically-switchable transmission mode of operation; and

an optical state switching mechanism for electrically-switching said electro-optical glazing panel into said electrically-switchable scattering mode of operation and into said electrically-switchable transmission mode of operation,

wherein the liquid crystal material comprises a PSCT mixture including a non-reactive blend of a chiral liquid crystal and a monomer and a surfactant.

63. (Previously Presented) The electro-optical glazing structure of claim 62, which has total-scattering and total-transmission modes of operation for improved control over the flow of electromagnetic radiation within the solar region of the electromagnetic spectrum.

64. (Previously Presented) The electro-optical glazing structure of claim 63, in which the modes of operation avoid the use of energy absorbing mechanisms.

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65. (Previously Presented) The electro-optical glazing structure of claim 63 which has a broad band of operation, including the near-IR, visible and near-UV portions of the electromagnetic spectrum.

66. (Previously Presented) The electro-optical glazing structure of claim 62, wherein the optically transparent substrates comprise float-glass.

67. (Previously Presented) The electro-optical glazing structure of claim 62, wherein said surfactant comprises Poly (Dimethylsiloxane).

68-82. (Canceled)

83-87. (Canceled)

88. (Currently Amended) A PSCT liquid crystal material for an electro-optical glazing structure comprising a non-reactive blend of a chiral liquid crystal and a monomer, and a surfactant.

89. (Previously Presented) The liquid crystal material of claim 88, wherein said surfactant comprises Poly (Dimethylsiloxane).